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ABSTRACT

The comprehension of deviant sentences is dependent on several linguistic variables. Grammaticalness (G), meaningfulness (M), and familiarity (F) are three variables which are potentially such. In order to study the effect of violating these variables upon Ss! responses to deviant sentences, 85 deviant and 15 correct sentences were assigned to eight groups representing all combinations of two values ("correct" or "deviant") on these three variables. The 100 sentences were given to four equal groups of Ss (total N=112), who rated each sentence from 0 to 10 on the basis of either grammaticalness (G*), meaningfulness (M*), familiarity(F*), or ordinariness (0*). The data of the first three groups were then combined into an 84 by 100 matrix. A principal components analysis was performed on the cross-product matrix with a varimax rotation. Four interpretable factors emerged, accounting for 89% of the variability. Factor I was a general comprehensibility factor in the factor loadings, related to changes in all three variables. However, the familiarity Ss scored highest on Factor I. Factors II and III represented G-G* and M-M*, respectively, in both factor loadings and factor scores. Factor IV corresponded to the F variable in the factor loadings, but was uninterpretable for the factor scores. [Not available in hard copy due to marginal legibility of original document.] (Author/FWB)



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PRINCIPAL COMPONENT ANALYSIS OF RATINGS

OF SOME DEVIANT ENGLISH SENTENCES

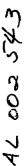
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February 1970





PRINCIPAL COMPONENT ANALYSIS OF RATINGS OF SOME DEVIANT ENGLISH SENTENCES

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Abstract

The comprehension of deviant sentences, a not infrequent demand in natural situations, is dependent on several linguistic variables. Grammaticalness (G), meaningfulness (M), and familiarity (F) are three variables which are potentially such. In order to study the effect of violating these variables upon Ss' responses to deviant sentences, 85 deviant and 15 correct sentences were assigned to eight groups representing all combinations of two values ("correct" or "deviant") on these three variables. The 100 sentences were given to four equal groups of Ss (total N = 112), who rated each sentence from 0 to 10 on the basis of either grammaticalness (G*), meaningfulness (M*), familiarity (F*), or ordinariness (0*). The data of the first three groups were then combined into an 84 by 100 matrix. A principal components analysis was performed on the cross-product matrix with a varimax rotation. Four interpretable factors emerged, accounting for 89% of the variability. Factor I was a general comprehensibility factor in the factor loadings, related to changes in all three variables. However, the familiarity Ss scored highest on Factor I. Factors II and III represented G-G* and M-M*, respectively, in both factor loadings and factor scores. Factor IV corresponded to the F variable in the factor loadings, but was uninterpretable for the factor scores.



PRINCIPAL COMPONENT ANALYSIS OF RATINGS OF SOME DEVIANT ENGLISH SENTENCES Joseph H. Danks and Charles Lewis

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Although one encounters deviant utterances in several different "natural language contexts," few studies have been devoted to the study of such utterances. Children, just learning to speak, often produce utterances which are deviant according to any reasonable description of adult language. It is, of course, true that these utterances follow their own regularities (Braine, 1963; Brown & Fraser, 1963; Menyuk, 1964). However, if these children's utterances are to be comprehended by adults--and, in fact, the large majority are comprehensible, at least in part--then the utterances must be processed by the adult grammar as deviant. Thus, some subsection of the adult grammar must be programmed for the comprehension of such utterances. A second source



Now at Kent State University and Dartmouth College, respectively.

In this paper, we sometimes use "grammar" in a very general sense, following Chomsky (1965). In these cases, "grammar" refers to a complete description of the language including phonological, syntactical, and semantic components. What in common usage is referred to as "grammar" is more or less equivalent to "syntax" (cf. instructions to Ss for an example of this contrast). If there is a possibility of confusion of the two senses of "grammar," the correct sense will be appropriately noted. Thus, "deviant" utterances refer to any utterance which violates any of the rules of the three components of the grammar. Ultimately, even this formal definition of "deviant" reduces to the judgments of native speakers (see Danks, 1968, for a more extended discussion of this point). In this study we will be concerned primarily with syntactic and semantic deviances.

[&]quot;Comprehension" is also being used in a generic sense. It is the result of a complete and successful processing of the utterance through the grammar; thus, it includes phonological perception, syntactic interpretation, and semantic understanding. "Perception," "interpretation," and "understanding" do not strictly refer to their common meanings, but are defined as technical terms referring to the assigning of a description from the respective components of the grammar.

criteria for an ideal grammar be revised so that the grammar generates not only all the fully grammatical sentences but also all the deviant ones and labels them as such.

In order to comprehend a deviant utterance, the most parsimonious manner in which to process the utterance is to use the "regular" grammar insofar as possible, making adjustments only when necessary to account for the deviations from regularity. Thus, how one processes deviant utterances will provide evidence for possible mechanisms which are operating in the processing of normal utterances. The mechanism by which the adjustments are made must have a regular link to the "normal" grammar (Lakoff, 1965). If, as some current psychological theories of language performance suggest (Miller, 1962; Miller & Chomsky, 1963), the language user has internalized an analogous form of the formal grammar and uses it in the production and comprehension of utterances, then there is an additional reason to study the language user's response to deviant and nondeviant utterances in the same situation.

The few empirical studies to date which have studied any form of deviant utterances represent a wide range in experimental sophistication and the types of deviances studied (see Danks, 1968, for a more complete review of the linguistic and psychological literature relating to deviant sentences). In a polemical discussion, Hill (1961) sought to rebut Chomsky's criterion that groups of English words can be consistently and agreeably identified as grammatical or ungrammatical and conducted an informal study using only 10 sentences and 10 Ss. Some of the sentences were formally grammatical, some were grammatical but meaningless, and some were ungrammatical. Of the 10 Ss, 8 were either college professors (English or linguistics) or graduate students, 1 was an undergraduate business major, and 1 was a secretary. The



.

So were first asked to read aloud all 10 sentences. They were then asked to indicate which strings were ungrammatical and which were grammatical. Although the conclusions were rather tentative owing to the small select sample of both So and test items, the results indicated that there was no general conception of grammaticalness. Hill also concluded that many non-syntactic variables, e.g., intonation, meaning, punctuation, etc., entered into the judgments.

Maclay and Sleator (1960) presented six sets of sentences varying differentially in three dimensions which they called grammaticalness, meaningfulness, and ordinariness. The Ss were 57 undergraduates divided into three groups. Group I responded to the question "Do these words form a grammatical English sentence?" with respect to each string. Group II was asked the same question except that "meaningful" was substituted for "grammatical." And for Group III, the substitution was "ordinary" with the same procedure. A final ranking of groups based on the proportion of Ss giving a "yes" response matched the predicted rankings based on linguistic considerations of the way the strings were constructed. In contrast to Hill (1961), the judgments of grammaticalness were relatively independent of meaningfulness and ordinariness. While no data were presented relevant to between-S agreement, there was some indication that the Ss' judgments were not in complete agreement. Although the Maclay and Sleator experiment was better controlled than that of Hill, there were still methodological problems to be solved, e.g., the more precise specification of the dimensions on which the sentences were constructed.

Coleman (1965) constructed 10 series of 4 sentences, each series having 4 levels of grammaticalness. The sentences were constructed by a method



similar to the theoretical analysis proposed by Miller and Chomsky (1963). For the lowest level of grammaticalness words were drawn at random. At each succeeding level, word class restrictions were placed on the possible choice of words, although within the restrictions the words were randomly selected. At the fourth and highest level of grammaticalness used in this study, the restrictions were sufficiently severe that, although the words were drawn randomly, the strings were very close to being completely grammatical. Ten college free men ranked the 4 sentences within all 10 series separately in order of grammaticalness. All series were ranked in the predicted direction. Thus, in contrast to Hill's Ss, these Ss were able to differentiate degrees of grammaticalness.

In an extension of Coleman's work, Danks (1967) used a subset of Coleman's sentences and a different scaling technique. Within-S consistency and between-S agreement were high. There was strong evidence that college undergraduates can differentiate degrees of grammaticalness as suggested by Miller and Chomsky. However, there was no clear differentiation between the two lower levels of grammaticalness (the separation is also not clear in Coleman's results). Since the word class restrictions of the second lowest level were those such as Noun Phrase, from which any word including a verb may be ultimately derived, Noun Phrase represents no more a restriction than drawing the words at random. The two lower levels are therefore comparable. Thus to clarify this situation, the formatives included as word class restrictions must be able immediately to dominate a terminal symbol of the base structure in a permissible derivation. Such a qualification excludes Noun Phrase, but not Noun. Though the qualification was implicitly followed in their examples, it was not stated explicitly by Miller and Chomsky. The results of both Coleman and Danks support this qualification.



Marks (1965, 1967a, 1967b) has made an extensive study of Ss' responses to varying syntactical distortions. Although his distortions were not in general related to a specific linguistic theory, he was able to make predictions (which were confirmed) based on a psychological model of sentence processing. This model incorporated both linguistic, e.g., phrase structure rules, and psychological notions, e.g., serial order processing. Marks and Miller (1964) studied the interrelation of syntactic and semantic distortions on learning of the deviant sentences. Using sentences of the form

(1)
$$Adj_1 + N_1 + V + Adj_2 + N_2$$
,

they effected syntactic distortions by scrambling the word order in several ways (anagram sentences). They assumed that a large measure of the original meaning remained in the scrambled form, since either the $\underline{S}s$ could reconstruct the utterance or induce the general notion from the associative. overlap. Distortion of meaning (anomalous sentences) without affecting the syntax was accomplished by "diagonalizing" over a set of five sentences each of the same form. That is, the first word of the first sentence (\underline{W}_{11}) , the second word of the second sentence (\underline{W}_{22}) , etc., were combined until five new sentences were formed thusly:

(2) (a)
$$W_{11} + W_{22} + W_{33} + W_{44} + W_{55}$$

(b)
$$W_{12} + W_{23} + W_{34} + W_{45} + W_{51}$$

- (c) ...
- (d) ...

(e)
$$W_{15} + W_{21} + W_{32} + W_{43} + W_{54}$$
,



where \underline{W}_{ij} = the \underline{i} -th word in the \underline{j} -th sentence. Each sentence was of the same syntactical form as (1), but since the topics were mixed the semantic structure was effectively destroyed. In addition to the normal anagram and anomalous sentences, a fourth set of sentences (word lists) which distorted both syntax and semantics was constructed by scrambling the word order of (2). The groups of sentences were presented aurally to \underline{S} s in a free learning situation. The anagram and anomalous sentences produced equal deficits in the mean percentage of words correct compared with normal sentences, and, of course, the word lists were lowest. However, there were differences between the anagram and anomalous sentences in terms of the kinds of errors committed. Thus, syntax and semantics can have relatively different effects on \underline{S} s' performance when measured via deviant sentences.

The principal dimension on which deviant utterances have been produced has been that of syntax, although semantics and ordinariness also have been used. If one is to study how $\underline{S}s$ go about comprehending deviant utterances, then one of the primary tasks is to identify the relevant variables of the sentences. Thus, as many variables as possible were included which might potentially have an effect. In this study the sentences to be used were chosen to represent all possible combinations of "correct" or "deviant" grammatical (G: g or \overline{g}), \overline{g} meaningful (M: m or \overline{g}), and familiar (F: f or \overline{f}) sentences. This classification results in eight possible groups of sentences. The notion of familiarity was adapted from that of ordinariness



 $^{^3}$ g denotes a grammatical sentence; \bar{g} is used to indicate a sentence which is not grammatical. Similar remarks hold for m, \bar{m} , \bar{f} , \bar{f} , o, and \bar{o} . Quite obviously none of these variables represent a strictly dichotomous construct either empirically or formally; however they were constructed as such to facilitate interpretation in this exploratory study.

(0: o or $\overline{0}$) used by Maclay and Sleator (1950). They define "an ORDINARY sentence as one which we [the authors] believe to occur with relatively high frequency in English [p. 276]." They do not attempt to construct sentences corresponding to three of the eight possible types -- gmo , and gmo . In the latter two cases, it is clear that a meaningless, yet ordinary, i.e., a common occurrence, utterance would be extremely hard to construct. Typically, one does not produce utterances which are meaningless under sufficiently common conditions that they be called ordinary. However, it is conceivable that there are nonmeaningful cliches such that while the utterance is familiar, the "purpose" of uttering the sentence is the uncommonness or uniqueness of the utterance. For this reason, we shifted from the ordinariness variable to that of familiarity. In this way we thought it possible to find sentences which might be included in the two groups gmf and gmf. We also thought that the third group not studied by Maclay and Sleator (gmo or gmf) could be approximated by using syntactically correct sentences from very esoteric subjects such as recondite philosophy or technical science.

The problem of ordinariness, familiarity, and other variables related to frequency of occurrence is fraught with arguments about the importance of these variables as constructs. In principle we agree that it is extremely improbable that our Ss have heard or seen any of the f sentences before and that the objective difference in frequency between f and f sentences is so small as to approach zero (if it could be measured; in practice it cannot). However, we have included the F variable since, though Ss may be wrong, they do have a "feeling" of familiarity and are able to respond on the basis of it (see, e.g., Maclay and Sleator, 1960).



A question implicit in the above discussion to which we will direct some attention is the independence of the variables from each other. Linguistic theory of both the older structuralist tradition and of the newer generative-transformationalist school have emphasized the independence of syntax and semantics. Such a distinction was felt necessary for an adequate formal description of language. While the proclaimed independence may be necessary for a formal description, its efficacy for a model of the language user would have to be independently demonstrated. Further, the independence of F from both G and M has yet to be satisfactorily demonstrated, Maclay and Sleator not to the contrary. Although the present study is not designed to be the crucial experiment on the question, some evidence will be available.

Thus, the primary purpose of this study was to identify some of the variables used by <u>S</u>s in responding (e.g., by ratings on various criteria) to deviant sentences. A secondary purpose was the tentative analysis of the interrelations of these variables.

The procedure devised to measure the effects of variables and their interrelations was a principal components analysis of the ratings of the individual sentences. Basically, a principal components analysis allows us to describe the ratings obtained as a joint function of the instructions given and the sentences used. Ideally, we should be able to find three values for each sentence which describe its location on hypothetical G, M, and F scales. These are known as the <u>factor loadings</u> of the sentences. In addition, we should be able to find three coefficients for each \underline{S} which describe the extent to which his judgments are based on G^* , M^* , and F^* . These are known as factor scores. In the basic factor analysis model, the



rating given a sentence by a particular \underline{S} is assumed to be a weighted sum of its factor loadings, the weights being the respective factor scores of $\underline{S}s$.

If the language of factor scores does not seem particularly enlightening in this context, it is because principal components analysis was first developed to describe mental abilities and personality traits. Its use as a scaling technique is more recent and dates from Tucker's (1960) work on the vector scaling model.

To actually obtain these factor loadings and factor scores, we extract the first several principal components of the raw data matrix. These are defined as the best predictors of the raw data in the sense that linear combinations of them account for the maximum variability in the ratings. At this point we should mention the essential difference between principal components analysis and the related collection of techniques known as factor analysis. The former concentrates on explaining overall variability in the data, while the latter tries, primarily, to explain covariability, or interrelations. This is not to say that factor analysis does not explain variability or that principal components analysis does not explain covariability, but rather that the emphasis is different in the two approaches. In the present study, it was felt that the emphasis should be on reproducing the ratings themselves and not the covariances between ratings.

Method

Subjects. The Ss were 112 students enrolled in a summer school at Rutgers--The State University, New Brunswick, New Jersey. They were paid for their services. All were native speakers of English.



Sentence materials. One hundred sentences satisfying the criteria for one of the eight possible combinations of the three two-valued variables discussed above--grammaticalness, meaningfulness, and familiarity--were constructed or assembled from other studies. The sentences are listed by types in Table 1. The sentences used by Maclay and Sleator (1960) were assigned to the appropriate groups; these were the first five sentences in groups gmf (1-5), gmf (16-20), gmf (33-37), gmf (48-52), and gmf (63-67). A direct translation of ordinariness to familiarity has been assumed. The normal sentences, anomalous and anagram string, and the word lists used by Marks and Miller (1964) were assigned to the gmf (6-15), gmf (38-47), gmf (53-62) and gmf (68-77) groups, respectively. distortions of syntax and semantics introduced by Marks and Miller (1964) were highly atypical, so that, with the exception of normal sentences, their sentences were all assumed to be unfamiliar. For the remaining 12 sentences for group gmf (21-32) appropriate selections were made from examples of children's speech reported by Menyuk (1964). We assumed that these examples would provide interesting information about natural language relative to one of the specific types of deviations which had prompted this study.

The group of sentences characterized as gmf (78-87) were derived from one of two general sources. The first five were quotes (sometimes with slight modifications to shorten the length) from either Kant, Husserl, or Merleau-Ponty. The last five were selected (again with some modifications of length) from a recent issue of <u>Science</u>. These 10 sentences were supposed to be unfamiliar, in general, to this particular population of <u>Ss</u>; yet all were certainly grammatical and meaningful. The last 13 sentences—7 in gmf (88-84) and 6 in gmf (95-100)—were selected from various literary or



Table 1

List of the 100 Sentences Used, Grouped According to Their Supposed Construction

Sentence No. Sentence

GRAMMATICAL-MEANINGFUL-FAMILIAR (gmf)

1	I wish I could write to each of you individually.
2	The chairman's most important job is timing.
3	Numerous other countries will be represented.
4	They finished it yesterday.
5	He was ready to go.
6	Rapid flashes augur violent storms.
7	Pink bouquets emit fragrant odors.
8	Fatal accidents deter careful drivers.
9	Melting snows cause sudden floods.
10	Noisy parties wake sleeping neighbors.
11	Furry wildcats fight furious battles.
12	Respectable jewelers give accurate appraisals.
13	Lighted cigarettes create smoky fumes.
14	Gallant gentlemen save distressed damsels.
15	Soany detergents dissolve greasy stains.

UNGRAMMATICAL-MEANINGFUL-FAMILIAR (gmf)

16	Not if I have anything to do with it.
17	Probably, although he may surprise us.
18	About the time that the new models were shown.
19	The kind of person who learns to talk with the natives.
20	In order to get there before they close.
21	He'll might get in jail.
22	He'll have to go the doctors.
23	I want a mild please.
24	Put the hat.
25	I know which do they like.



Table 1 (Contd)

Sentence No. Sentence

UNGRAMMATICAL-MEANINGFUL-FAMILIAR (gmf) (Contd)

- 26 Who he is kissing?
- 27 It was snow yesterday.
- 28 Take off it.
- 29 She has lots of necklace.
- 30 Give me some soaps.
- 31 He growed up fast.
- 32 Him is a bad boy,

GRAMMATICAL-NONMEANINGFUL-UNFAMILIAR (gmf)

- 33 Appointments can now winters generously.
- Extra rivers wished casually to cancel off.
- Tired windmills hinge a lot of elephants.
- 36 Seventeen intuitions ate highly across the right.
- 37 During dishing, tolerant marbles remarked off.
- Rapid bouquets deter sudden neighbors.
- 39 Pink accidents cause sleeping storms.
- 40 Fatal snows wake violent odors.
- 41 Melting parties augur fragrant drivers.
- Woisy flashes emit careful floods.
- Furry jewelers create distressed stains.
- Respectable cigarettes save greasy battles.
- 45 Lighted gentlemen dissolve furious appraisals.
- 46 Gallant detergents fight accurate fumes.
- 47 Soapy wildcats give smoky damsels.

UNGRAMMATICAL-MEANINGFUL-UNFAMILIAR (gmf)

- 48 Yesterday, I the child a dog gave.
- The with feet aching man came yesterday home.
- 50 Get me from the kitchen a big spoon.



Table 1 (Contd)

Sentence No.	Sentence
UNGRAMMATICAI	-MEANINGFUL-UNFAMILIAR (gmf) (Contd)
51	You can him not understand.
52	To me was interesting the movie.
53	Rapid augur violent flashes storms.
54	Bouquets pink odors fragrant emit.
55	Deter drivers accidents fatal careful.
56	Sudden melting cause floods snows.
57	Neighbors sleeping noisy wake parties.
58	Furry fight furious wildcats battles.
59	Jewelers respectable appraisals accurate give.
60	Create fumes cigarettes lighted smoky.
61	Distressed gallant save damsels gentlemen.
62	Stains greasy soapy dissolve detergents.
UNGRAMMATICAL	-NONMEANINGFUL-UNFAMILIAR (gmf)
63	A keeps changed very when.
64	Tables down cod ashes rock under off two syrup.
65 '	Ought cool send had grand the respiratory.
66	Not off bandage to now lake asked so is were.
67	Label break to calmed about and.
68	Rapid deter sudden bouquets neighbors.
69	Accidents pink storms sleeping cause.
70	Wake odors snows fatal violent.
71	Fragrant melting augur drivers parties.
72	Floods careful noisy emit flashes.
73	Furry create distressed jewelers stains.
7 ¹ 4	Cigarettes respectable battles greasy save.
75	Dissolve appraisals gentlemen sighted furious.
76	Accurate gallant fight fumes detergents.

Damsels smoky soapy give wildcats.



77

Table 1 (Contd)

Sentence No. Sentence

88

GRAMMATICAL-MEANINGFUL-UNFAMILIAR (gmf)

78	A house is a representation, the transcendental object is unknown.
79	Natural being is a realm whose existential status is secondary.
80	The correlate of this consciousness is immanent temporality.
81	Sensation can be anonymous only because it is incomplete.
82	Intellectualism remains anterior to the problem of oriented space.
83	The surface area of silicic acid has been determined by absorption
84	Vernier acuities are inseparable for test targets.
85	The protein network is composed of an amorphous matrix.
86	The archosaurian ancestors are probably in the ophiocodont group.
87	The segmentally ganglionated nerve cord was mapped.

GRAMMATICAL-NONMEANINGFUL-FAMILIAR (gmf)

- The medium is the massage.

 The mome raths outgrabe.

 Twas brillig, and the slithy toves did gyre and gimble.

 May the hair on your feet grow long.
- 93 The key is in the sunlight at the window in the bars.
- 94 All mimsy were the borogoves.

A rose is a rose is a rose.

UNGRAMMATICAL-NONMEANINGFUL-FAMILIAR (gmf)

- 95 Lucy in the sky with diamonds.
- 96 Rah, rah, siz, boom, bah.
- 97 Hutsut ralston on the rillera.
- 98 Within you and without you.
- 99 In the world, given, flower maddened, Jehovah accept.
- 100 Bah, humbug.



popular sources, which would, perhaps, be somewhat familiar to the <u>S</u>s. Although these sentences can be said to "mean" something in their respective contexts, this meaning is rather obscure, and this even more obscure when taken out of context. Some of the sources were Shakespeare, Dickens, McLuhan, Tolkein, Allen, Ginsberg, Lewis Carroll, the Beatles, a football cheer, and a 1930's slang expression. Although it was not expected that all of these expressions would be appropriate to their respective groups, it is reasonable to assume that enough of them were correctly constructed and assigned to provide a valid measure of that group. It is also obvious that these groups are not homogeneous with respect to the precise type of deviations defined by the label of the group. However, we included the many different types of deviation because of uncertainty as to which types might be the most efficacious.

Procedure. The 100 sentences were placed in a random order and given to four equal groups of 28 Ss, each of which differed only in the instructions. All Ss were asked to rate the sentences from 0 to 10, with decimal scaling permitted on the basis of only one dimension. The four groups of Ss were each asked to rate the sentences on the basis of one of the following labels: grammaticalness (G*), meaningfulness (M*), familiarity (F*), and ordinariness (O*). The Ss were given no additional help in defining these concepts other than the single word label. It was implied that they were to define the concept for themselves. Examples of the four sets of instructions and the random order of sentences are in Appendix A. The four groups of Ss were

The instructions to the <u>Ss</u> were obviously related to the variables identified in the sentences. However, since there is no a priori reason to make the correspondence one of equivalence, the two different sets of abbreviations have been used for the groups of sentences and groups of Ss.



equalized as much as possible in each session. Seven sessions of varying size were needed to administer all of the tests.

Results

The 112 Ss by 100 sentences raw data matrix is presented in Appendix B for reference of anyone wishing to use the data for additional analyses.

Scale values. The median and semi-interquartile range for each sentence were computed for each group of Ss (Table 2). Because of the extreme skewness of many of the distributions, nonparametric measures are a more reasonable estimate of the central tendencies and variabilities.

The O* group was included simply to establish a connection between Maclay and Sleator's concept of O and that of F used here. Spearman correlation between the median scale values across sentences for the two groups of $\underline{S}s$ was \underline{r}_s = 0.93 (corrected for ties). This correlation was highly significant (\underline{t}_s (98) = 25.051, p < .001). Thus, the instructions did not have an overall effect on the ratings for F* and O* . However, the distinction was introduced specifically to facilitate (at least by the intuition of the experimenter) the construction of the gmf and gmf sentences. Since these two groups constituted only 13% of the total sample of sentences, it is possible that differences in the ratings of these two groups were overshadowed by the similarity of the two concepts for the other groups of sentences. Therefore, a Spearman correlation was computed between the F and O Ss for these two groups of sentences. The correlation was also large and significant ($\underline{r}_s = 0.91$, \underline{t} (11) = 7.187, p < .001). Although a supposed distinction between F and O was made in the construction of sentences, the ratings from these two groups of Ss were



Table 2

Medians (Mdn) and Semi-Interquartile Ranges (SIR) for

Each Sentence Across the Four Groups of Ss and

Arranged According to Supposed Construction

				~	0.0			
	G ^a	+	M ³	Groups *	_	*	0) *
Sentence Number	Mdn	SIR	Mdn	SIR	Mdn	SIR	Mdn	SIR
gmf				-				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10	1 1 0 0 7 0 2 0 5 5 0 2 0 1 0 0	10 10 10 10 10 7 10 7.25 10 10 8 10 9	0 1.5 1 0 8 1 5.5 0 5 0 5 0 2 1 0 5	10 10 10 10 10 5 10 8 10 10 7 10 7	22100626·1161·342	10 10 10 10 10 5 10 8.5 10 10 9 10 8	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
- mf 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	773543843566466455	25335435534574566 5 55 55 555555	98.78.9794569866.778.5	4 3 4 3 3 5 2 5 5 2 3 7 5 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10 8 8 9 9 5 9 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	0 2 3 2 1 4 4 4 4 4 6 6 5 6 5 3	10 9888 5 9 4 3 5 9 6 4 7 8 7 6	13.544.644453463534.5 5 4 5 55 5 55.5



Table 2 (Contd)

-19-

				Groups	of <u>S</u> s			
Sentence		}*		<u>//</u> *		[-*		0*
Number	Mdn	SIR	Mdn	SIR	Mdn_	SIR	Mdn	SIR
gmf'								
33 34 35 36 37 38 39 40 41 42 44 45 46 47	036315·5773667474·5	266537666587677·5	0 0 · 5 1 0 0 2 1 2 0 2 · 5 5 1 · 5 0	1.55 5.5 1.46 5.75 4.54 5.45 1.54 5.43 1.54 5.43 1.54	0 0 1 • 5 1 0 2 2 1 • 5 0 1 0 0 0 2 0	324345542344343 555555555555555555555555	121·5 5 5 5 5 5 2242	343333433554454 55 5 5 5 5 5 5 5 5 5
gmf		1.7	Ü	±	Ü	J. J	<u>-</u>	r
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	536552222222012	3·5·5 4·3·3·5 4·4·4·2·3·5	6·78883516657243·	4·53435563553455 55 75 555	545°561304302°012°	663544646536355 55 5 55	336462224323223	454553455544434°
gmf 63 64 65 66 67 68	0 0 0 0	1 1.5 1 0.5 2	0 0 0 0 0 0	0.5 0 1 1 0 1.5	0 0 0 0 0	1 1.5 2 2 1 3	0 0 1 0	1.5 2 3 1 2



Table 2 (Contd)

-20-

· ————————————————————————————————————				Groups	of <u>S</u> s			
Sentence	G	*	N	[*	E	*	0	*
Number	Mdn	SIR	Mdn	SIR	Mdn	SIR	Mdn	SIR
gmf (Contd)								
69 70 71 72 73 74 75 76 77	0 0 1 0 1 0.5 0	2 2 3 2 3 3 5 5 2 0 3	0 0 0 0 0 0 0 0	2.75 2 1.4 1.5 1 2.5 1	0 0 0 0.5 0 0	2 2 4 2 5 4 2 0 5 2 2 3	0 1 0.5 0.5 0.5 0.5 1 0.5	1 2 2.5 3 3 2.5 2.5 2.5
gmf								
78 79 80 81 82 83 84 85 86	8.5 9 6.5 9.5 10 10 9 10	3·5 4·5 2·5 0 3·5 1 3 2·5	864878.555 4.758	3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5·5 6·5 6·5 7 7 7 7 2 5·5	6·5555 5·55 5·55 6·55 6·55 6·55	8.5 8.5 5.5 6.5 988 78.5	4 3 6 5 3 2 7 4 6 4
88 89 90 91 92 93 94	8 9·5 5 7·25 10 5·5 5·5	4 3·5 9·5 5·5 1 5·8	8.5 7.5 2.5 4 8 7	3·5 5·6 5·85 2·5 3·5	10 6 0 8 7 5 2	1 5 4 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 5 3 6 8 4 5	2.5 6.5 7 7.6 3 4
95 96 97 98 99 100	5 1 0 3.5 1 8	4.5 8 2.5 5 1.5 5-5	9·5 7·5 0 8 2 8	4 5 1•5 4 5 3	10 10 0 9.5 1.5	5 1.5 0.5 3.5 4 1	7 9 0 5 2 9	6•5 3 5 5 5

not different in any interesting or significant way. Thus, the instructions were not sufficiently detailed for the <u>Ss</u> to make the distinction between these two highly similar, but theoretically different concepts. Group 0* data have been excluded from the remainder of the analyses for this reason. The problem remains as to whether F (or 0) has any reality in the ratings of the sentences.

The medians of the medians for each group of sentences by the four groups of Ss are presented in Table 3. Also shown are the number of sentences in each group and the number of sentences for which the median rating for three groups of Ss (G*, M*, and F*) was in the predicted direction (above or below 5). The two extreme sets of sentences, gmf and gmf, which were predicted to be rated highest and lowest on each scale, respectively, were in fact so rated. Although there were minor deviations from 10 and 0 on various scales for the individual sentences, Ss were able to rate these with almost complete agreement (Table 2).

Three other sets of sentences-gmf, gmf, and gmf--were also rated as predicted. In these three sets, the Ss in the various groups were able to establish, to some extent, the instructed dimensions and rated the sentences appropriately. However, they were not able to divorce themselves completely from the other two variables. It is of course possible that the theoretical dimensions which were implicitly hypothesized as independent are correlated in fact. A possible answer to this question will be found in the next section.

The remaining three sets of sentences were the combinations not used by Maclay and Sleator. In all three sets there was a contrast between the M and F variables. However, in all three instances there was a tie between the M and F variable--one affecting the other.



					· · · · · · · · · · · · · · · · · · ·	
a t	Q	a ut u		Instruction	ons to \underline{S} s	
Sentence Type	Sentences at Criteria	Sentences in Group	G*	<u>M</u> *	F*	0*
gmf	15	15	10	1 0	10	10
gmf	8	17	5	7• 5	6	7
gmf	8	15	5•5	1	0	2
gmf	9	15	2	6	3	3
gmf	15	15	0	0	0	0.5
gmī	2	10	9•75	7•25	5 •7 5	8
gmf	1	7	7·2 5	7	6	5
gmf	0	6	2•25	7•75	9•75	6



Thus, the sentences were reasonably effective in producing the kinds of variation desired. However, there were some discrepancies which may have been the result of the use of impure scaling dimensions by the Ss. A more precise determination of the effects of each variable was determined by the principal components analysis.

Principal components analysis. It is a basic theorem of principal components analysis that the principal components of a data matrix are simply described in terms of the characteristic roots and vectors of the cross-product matrices. (These cross-product matrices are themselves obtained by multiplying the data matrix by its transpose.) The importance of this theorem is that several numerical techniques exist for obtaining characteristic roots and vectors. Thus, it is possible to compute the desired factor scores and factor loadings.

The data for the three groups of Ss (G*, M*, and F*) were combined into an 84 Ss by 100 sentences matrix. The characteristic roots and vectors were obtained from the Ss by Ss cross-product matrix and the factor scores computed. The factor loadings were then determined via the inverse method. The characteristic roots are presented in decreasing order of magnitude in Table 4, with the proportion of "variability" accounted for by the corresponding prinicipal component presented in the right-hand column. Preliminary study indicated that the first four components were potentially interpretable. Thus the components accounted for 89.49% of the variability. To interpret the results of this type of analysis, some type of transformation is usually applied to the original loadings and scores. Geometrically, this corresponds to rotating the axes in the factor space and, as a consequence, the transformations are called rotations-orthogonal, if the factors remain uncorrelated, and oblique, otherwise.



Table 4

Characteristic Roots in Decreasing Order of Magnitude

and Proportion of Variability Accounted For by Each

Roots	Proportion of Variability Accounted For
263866.5977	•8173
12887•1825	•0399
8385.3273	•0260
3777•3498	•0117
2831.9256	•0088
2145.0785	•0066
1873.1806	•0058
1678.1737	•0052
1539.0305	•0048
1274.2579	•0039
1154.6703	•0036
1117.4038	•0035
1060 • 3375	•0033
1016.1011	•0031
944.7022	•0029
918.5301	•0028
889.3641	•0028
846.3311	•0026
820.2197	•0025
750.6917	•0023
13063.4407 ^a	•0006

a Sum of remaining 64 roots.



Several rotation schemes, both orthogonal and oblique, were attempted on the factor matrices. In each case one of the two matrices was rotated and the other determined by the transformation matrix. One orthogonal and one oblique solution is presented in both of which the sentence factors were rotated first and the subject factors determined second. In those rotations which first used the subject factors, only three factors were interpretable (the obvious result of only three groups of <u>Ss</u>). Those rotations which were based on the sentence factors resulted in four interpretable factors (discussed in detail below). Thus, only the latter rotations will be discussed.

Orthogonal rotation. A varimax criterion was used for the orthogonal rotation since we expected variables to load on more than one factor. The median factor loadings and scores for each set of sentences and groups of Ss are in Tables 5a and 5b, respectively. The complete set of factor loadings and scores is contained in Appendix C. The first sentence factor (Factor I) was interpreted as a general comprehensibility factor, relating simply to the number of variables—0, 1, 2, or 3—which had been violated; Mdn gmf = 3.138; Mdn gmf , gmf , and gmf = 1.304; Mdn gmf , gmf , and gmf = 0.356; and Mdn gmf = 0.092 (see Figure 1). Factor II was a syntactical factor indicating whether or not the G variable was deviant: Mdn g = 1.978; Mdn g = 0.256. The third factor (Factor III) was interpreted as a meaning-fulness factor relating to the M variable: Mdn m = 1.564 and Mdn m = 0.230. Factor IV was an unfamiliarity factor, producing large loadings if



 $^{^5\}text{Mdn}$ g is used to indicate the median of the factor loadings for all syntactic sentences without regard to the values of M or F . Similar remarks hold for Mdn g , Mdn m , Mdn m , Mdn f , etc.

Table 5a

Median Sentence Loadings by Sentence Types

After Varimax Rotation

Sentence		Fac	etors	
Type	I	II	III	IV
gmf	3.138	1.629	1.508	-0.138
_ gmf	1.283	0.395	1.740	0.361
gmf	0.047	2•146	0.230	1.285
gmf	0.412	0.115	2.154	1.166
gmf	0.092	0.268	0.119	1.272
$gm\overline{f}$	1.515	2•349	0.556	0.224
gmf	1.271	2.076	0.964	0.240
gmf	3.087	0.116	0.461	0.983

Table 5b $\begin{tabular}{lll} Median Subject Scores by Instruction to $\underline{\bf S}$s After \\ & Varimax Rotation of Sentences \\ \end{tabular}$

Instructions				
to Ss	I	II	III	IV
Grammatical	1.439	1.973	0.843	-0.115
Meaningful	1.825	0.418	1.942	0.286
Familiar	2.257	0.471	0.986	0.115



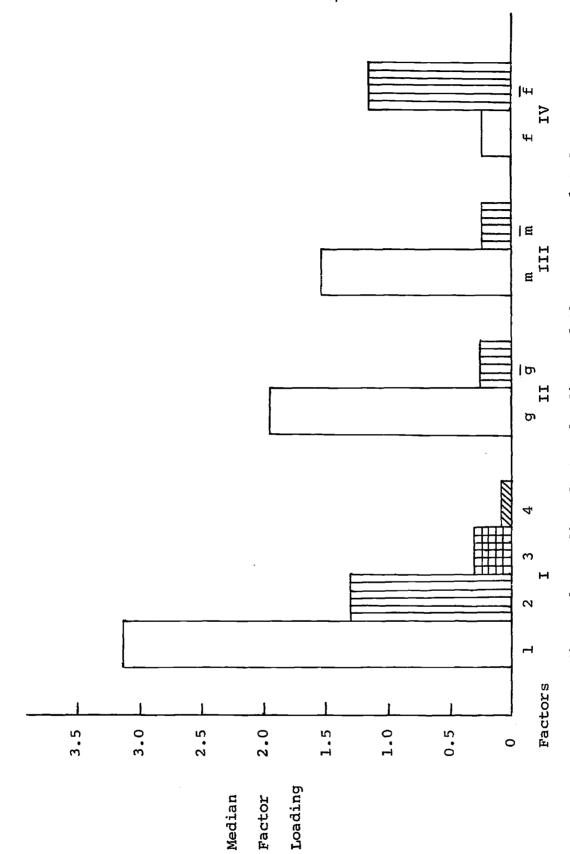


Figure 1. Median factor loadings of the groups related to each factor after an orthogonal rotation.



the sentence set was not familiar: Mdn f = 0.240 and Mdn $\overline{f} = 1.167$. Although these interpretations of the factors are supported by the medians in Figure 1, the loadings of the individual sentences (Appendix C) and the median loadings for the eight groups (Table 5a) were not as well differentiated on the respective factors. This failure to confirm the predictions implicit in the assignment of the sentences to the various groups is due in part to the wide variety of sentences included in each group and in part to interactions between the variables. The latter point is discussed more fully in the Conclusions.

These interpretations were partially confirmed by the resultant factor scores. The G* Ss scored most heavily on Factor II and also had the highest score on Factor II, confirming the previous interpretation of Factor II as related to G. The M* Ss similarly scored heavily on Factor III, also confirming the interpretation of that factor as defining M. The F* Ss scored most on Factor I--general comprehensibility--and were the highest on that factor. Their score was quite neutral on Factor IV, which had previously been interpreted as related to F. This result then explains part of the difficulty in interpreting the scale value results. The F* Ss do not seem to have the same definition of familiarity as was used to construct the sentences. Their definition seems to be a composite of the three variables, as determined in the comprehensibility factor.

Oblique rotation. The oblique rotation used was from a program (ROTSIM) developed by K. Jöreskog. This program rotates to a set of correlated factors with the property that the sum of squares of the factor loadings which are hypothesized to be small is minimized.



The results of the rotation on the sentence loadings, the resultant subject scores, and the factor intercorrelation matrix are presented in Tables 6a, 6b, and 6c, respectively. The complete factor loadings and factor scores are in Appendix D. The interpretation of these factors was the same as that for the orthogonal rotation (see Figure 2 for medians).

Factor IComprehensibility	Mdn gmf = 6.512
	Mdn gmf, gmf, gmf = 3.876
	Mdn gmf , gmf , $gmf = 0.669$
	Mdn $\overline{gmf} = 1.008$
Factor IIGrammaticalness	Mdn g = 4.124
	$Mdn \ \overline{g} = 0.379$
Factor IIIMeaningfulness	Mdn m = 1.169
	$Mdn \overline{m} = 0.047$
Factor IVUnfamiliarity	Mdn $f = -0.027$
	$Mdn \ \overline{f} = 2.283$

The factor scores, however, have lost some of their value as supporting evidence. Most upsetting is the negligible median loading of the G* Ss on Factor II. Of course, the factor scores did not enter into the criteria for either rotation, so this lack of support is not completely surprising.

Finally, it is worth noting that the factor intercorrelation matrix gives an extremely confusing picture of the relationships among the factors. These interpretations were again confirmed in the subject factors, except that the F* Ss score primarily on Factor I (Comprehensibility), as before.



Table 6a

Median Sentence Loadings by Sentence Types After

Oblique (ROTSIM) Rotation

Sentence Type	Factors				
	I	II	III	IV	
2mg	6.512	3.547	0.988	-0.175	
gmf	2.937	0.562	1.651	-0.278	
gmf	1.190	4.673	-0.098	3.580	
gm f	0.113	-0.167	2.329	1.002	
gmf	-1.008	0.476	0.059	2.264	
gm T	4.819	5-209	0.024	1.512	
gmf	4.143	4.422	0.511	1.202	
gmf	2.743	0.428	-0.024	0.548	

Table 6b

Median Subject Scores by Instruction to Ss After

Oblique (ROTSIM) Rotation of Sentences

Instructions	Factors				
to <u>S</u> s	I	II	III	IV	
Grammatical	1.412	-0.050	0.430	0.999	
Meaningful	2.012	-1.228	0.982	1.464	
Familiar	2.450	-1.714	-0.004	1.649	
Laultatat.	2.450	-7. (74	-0.004	Τ•1	

Table 6c

Factor Intercorrelation Matrix Following Oblique

(ROTSIM) Rotation of Sentences

Factors	I	II	III	
II	-0.847			
III	-0.361	0.453		
IV	0.800	-0.810	-0.263	



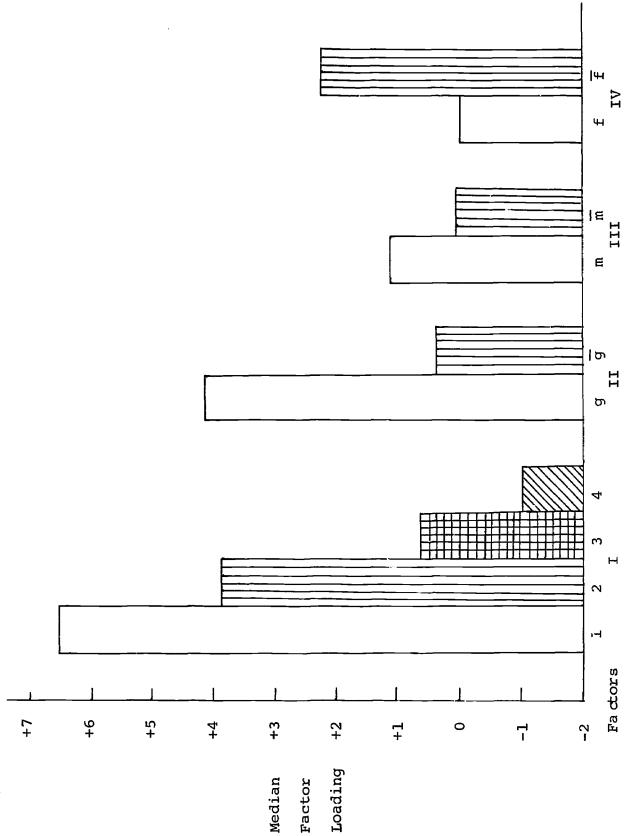


Figure 2. Median factor loadings of the groups related to

each factor after an oblique rotation



Conclusions

Not only were the G and M variables effective in producing predictable ratings, but also presumably pure factors of each were obtained. These factors provided loadings for comparing individual sentences on a given factor. Over the range of syntactic and semantic deviances employed, the <u>Ss'</u> identification of the relevant dimensions, i.e., from the instructions, was reasonably close to that assumed in the theoretical construction of the sentences.

The notable exceptions to these occurred in the mf groups. All of the major discrepancies from predictions occurred in relation to sentence types in which M and F were given opposite values, i.e., mf or mf. Also the Ss given instructions to rate on the basis of F*, in contrast to G* and M* Ss, did not use the same F factor as was used in the construction of sentences. The results indicate that F is not independent of G and M, especially the latter, but is a second-order variable which is composed of several first-order variables including G and M.

Let us consider the status of F in a bit more detail. The concept of "ordinariness" (0) as used by Maclay and Sleator was adapted to that of familiarity. Maclay and Sleator concluded that G, M, and O were independent. However, their technique was not adequately designed to provide a definite answer to the question of independence. As mentioned earlier, of the eight possible types of sentences used here (assuming F = O), the three



The naming of variables as first- and second-order is relative to this situation and is not intended to indicate primacy of G and M in any absolute sense (although such may in fact be the case).

types Maclay and Sleator omitted involved a contrast between M and O. In four of the five sentence types which they tested, M and O had equivalent values. Thus, gmo provides their only experimental test of the independence of M and O. Only 26% of the Ss said that gmo was meaningful and 4% said that it was ordinary. Although these distributions for meaningful and ordinary responses are significantly different (using χ^2 , p < .01), one can hardly conclude that such results confirm the independence of M and O because of the small percentage accepting gmo as meaningful.

In the present experiment, although F was an effective translation of O, the attempt to establish F as uncorrelated with M failed. In sentences where there was a M-F contrast, there was only a 32% success rate, as measured by the ratings--12 of 38 sentences failed to match the formula used in their construction. When there was no M-F contrast, the success rate was 74% (46 of 62, see Table 3). More detailed study of the ratings in Table 2 indicated that while an mf construction was attempted in 13 cases, only one case elicited the hypothesized M-F contrast. In the other 12 cases M and F were correlated.

Further evidence for the nonindependence of F is found in the factor scores for the Ss whose instructions were to rate on F*. These Ss scored most heavily on Factor I: Comprehensibility. With an orthogonal rotation their median score was in the middle of the three groups on Factor IV: unfamiliarity. And with the oblique rotation their score was highest (the opposite was expected) on Factor IV. Thus, the F* Ss were responding to some combination of variables which included G and M.

However, this evidence is not to imply that the F variable had no effect whatsoever. There are two points in particular where it did have an



effect. Factor IV was interpretable as unfamiliarity for the sentence loadings. Although it was not as "clean" as might be desired, it was reasonable to interpret it as such. Also, F added its weight to the determination of the Factor I loadings, along with G and M. The median factor loadings on Factor I for pairs of sentence types, differing only in F, are compared in Table 7. In each of the four pairs, the difference is significant. Thus, F did have an observable effect, although its effect was mixed with other factors.

The results provided justification for our use of the cross-product matrix in the analysis rather than the more common covariance or intercorrelation matrices. The evidence of a general factor corresponding roughly to the means of the individual sentence ratings (Factor I) was useful in interpreting the F* Ss and in evaluating the effectiveness of the F variables on sentence construction. While this general factor might be regarded as a statistical artifact associated with the variable means, in this case it has a very real meaning. Since the ratings for all sentences were supposedly on the same scale within a group of Ss, the means (or medians) of the sentences are directly comparable (as was discussed under Scale values). Thus, the particular measure of the relation between variables to be used must be selected, keeping in mind the properties which were designed into the procedure and which are expected in the resultant data.

As a final point, the orthogonal and oblique rotations should be compared. In general, there were no great differences among the factor loadings for the two solutions. On this basis alone, the simpler factor relationships implied by the orthogonal solution should make it preferable to the other. Upon noting the loss of the factor scores' value and the confusing factor relationships associated with the oblique solution, the picture becomes even



Table 7 Comparison of Pairs of Sentence Types, Differing Only in f or \overline{f}

	f	Î	n	n _f	ŭ	<u>p</u> <
gm	3-138	1.515	15	10	17	•001
em —	1.283	0.412	17	15	21	•001
gm	1.271	0.047	7	15	13	•01
gm	3.087	0.092	6	15	0	•001



clearer. Although certainly not a definitive conclusion on the issue, this implied independence of G and M meshes well with the notion in linguistics that syntax and semantics are and should be described independently of one another.



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APPENDIX A

Instructions for Each of the Four Groups--Grammaticalness, Meaningfulness,
Familiarity, and Ordinariness, Respectively--Followed by
the Random Order of the 100 Sentences



Name	Age
Native Language	Date

In this test we will try to measure how well you know the English language. On the following pages, there is a list of sentences. Some of them will be quite grammatical; others will not be grammatical at all. Your task is to rate the sentences on the following scale:

[0	1	2	_ 3	<u>4</u>	5	6	7	8	9	10]
ungr	ammatic	al	-						gramma	tical

If you think that the sentence is one of the most ungrammatical sentences possible, then you should rate it 0. However, if it is completely grammatical, then it is to be rated 10. Sentences falling in between these two extremes should be given appropriate ratings in the middle range of the scale. If you feel that the eleven categories provided are insufficient, please feel free to use decimal values between 0 and 10, in order to make finer discriminations. Before you make any ratings, read through the entire list of sentences, so that you know what kinds of sentences to expect. However, each sentence should be rated independently of those around it. There is no time limit. Be sure to rate every item.



Name		Age
Native	Language	Date

In this test we will try to measure how well you know the English language. On the following pages, there is a list of sentences. Some of them will be quite meaningful; others will not be meaningful at all. Your task is to rate the sentences on the following scale:

If you think that the sentence is one of the most non-meaningful sentences possible, then you should rate it 0. However, if it is completely meaningful, then it is to be rated 10. Sentences falling in between these two extremes should be given appropriate ratings in the middle range of the scale. If you feel that the eleven categories provided are insufficient, please feel free to use decimal values between 0 and 10, in order to make finer discriminations. Before you make any ratings, read through the entire list of sentences, so that you know what kinds of sentences to expect. However, each sentence should be rated independently of those around it. There is no time limit. Be sure to rate every item.



Name		Age	
Native	Language	Date	

In this test we will try to measure how well you know the English language. On the following pages, there is a list of sentences. Some of them will be quite familiar; others will not be familiar at all. Your task is to rate the sentences on the following scale:

If you think that the sentence is one of the most unfamiliar sentences possible, then you should rate it 0. However, if it is completely familiar, then it is to be rated 10. Sentences falling in between these two extremes should be given appropriate ratings in the middle range of the scale. If you feel that the eleven categories provided are insufficient, please feel free to use decimal values between 0 and 10, in order to make finer discriminations. Before you make any ratings, read through the entire list of sentences, so that you know what kinds of sentences to expect. However, each sentence should be rated independently of those around it. There is no time limit. Be sure to rate every item.



Name		Age
Native	Language	Date

In this test we will try to measure how well you know the English language. On the following pages, there is a list of sentences. Some of them will be quite ordinary; others will not be ordinary at all. Your task is to rate the sentences on the following scale:

If you think that the sentence is one of the most unordinary sentences possible, then you should rate it 0. However, if it is completely ordinary, then it is to be rated 10. Sentences falling in between these two extremes should be given appropriate ratings in the middle range of the scale. If you feel that the eleven categories provided are insufficient, please feel free to use decimal values between 0 and 10, in order to make finer discriminations. Before you make any ratings, read through the entire list of sentences, so that you know what kinds of sentences to expect. However, each sentence should be rated independently of those around it. There is no time limit. Be sure to rate every item.



```
Accidents pink storms sleeping cause.
       Bah, humbug.
       He'll have to go the doctors.
       Lighted cigarettes create smoky fumes.
 5
       The archosourian ancestors are probably in the ophiocodont group.
       A rose is a rose is a rose.
       Natural being is a realm whose existential status is secondary.
       Tired windmills hinge a lot of elephants.
 9
       The correlate of this consciousness is immanent temporality.
10
       I want a mild please.
11
       Dissolve appraisals gentlemen sighted furious.
12
       Furry wildcats fight furious battles.
13
       Create fumes cigarettes lighted smoky.
14
       About the time that the new models were shown.
15
       Bouquets pink cdors fragrant emit.
16
       He growed up fast.
17
       Accurate gallant fight fumes detergents.
18
       Distressed gallant save damsels gentlemen.
19
       The protein network is composed of an amorphous matrix.
       I know which do they like.
20
21
       Not off bandage to now lake asked so is were.
22
       The chairman's most important job is timing.
23
       I wish I could write to each of you individually.
21t.
       Rapid deter sudden bouquets neighbors.
25
       Seventeen intuitions ate highly across the right.
26
       Neighbors sleeping noisy wake parties.
       All mimsy were the borogoves.
28
       Gallant detergents fight accurate fumes.
29
       Respectable jewelers give accurate appraisals.
30<sup>°</sup>
       Who he is kissing?
31
       Rapid augur violent flashes storms.
32
       The surface area of silicic acid has been determined by absorption.
-
33
       In the world, given, flower maddened, Jehovah accept.
34.
       Gallant gentlemen save distressed damsels.
35
36
       Melting snows cause sudden floods.
       Damsels smoky soapy give wildcats.
37
38
       Within you and without you.
       The medium is the massage.
39
40
       Fatal snows wake violent odors.
       Stains greasy soapy dissolve detergents.
41
       Probably, although he may surprise us.
42
       Soapy detergents dissolve greasy stains.
43
       The mome raths outgrabe.
44
       Wake odors snows fatal violent.
45
       Yesterday, I the child a dog gave.
46
       Hutsut ralston on the rillera.
47
       Take off it.
48
       Jewelers respectable appraisals accurate give.
49
       Ought cool send had grand the respiratory.
50
       Rapid bouquets deter sudden neighbors.
```

Continue to next page.



The kind of person who learns to talk with the natives. Pink bouquets emit fragrant odors. He was ready to go. May the hair on your feet grow long. Pink accidents cause sleeping storms. 56 Get me from the kitchen a big spoon. You can him not understand. 58 Respectable cigarettes save greasy battles. The segmentally ganglionated nerve cord was mapped. 59" 60 Lucy in the sky with diamonds. 61 It was snow yesterday. 62 He'll might get in jail. 63 Put the hat. During dishing, tolerant marbles remarked off. 64 Melting parties augur fragrant drivers. 66 Sensation can be anonymous only because it is incomplete. 67 Intellectualism remains anterior to the problem of oriented space. 68 Furry fight furious wildcats battles. 69 Fatal accidents deter careful drivers. 70 Fragrant melting augur drivers parties. Numerous other countries will be represented. 71 72 They finished it yesterday. 73 The with feet aching man came yesterday home. Noisy flashes emit careful floods. 74 75<u>-</u> 76 Extra rivers wished casually to cancel off. Rapid flashes augur violent storms. Label break to calmed about and. 78 Vernier acuities are inseparable for test targets. Deter drivers accidents fatal careful. 80-Floods careful noisy emit flashes. 81 A keeps changed very when. 82 Give me some soaps. A house is a representation, the transcendental object is unknown. 84 Tables down cod ashes rock under off two syrup. 85 Soapy wild cats give smoky damsels. 86 Cigarettes respectable battles greasy save. 87 Him is a bad boy. 88 Ncisy parties wake sleeping neighbors. 89 To me was interesting the movie. 'Twas brillig, and the slithy toves did gyre and gimble. 90 91 Not if I have anything to do with it. 92 Furry jewelers create distressed stains. Rah, rah, siz, boom, bah. 93 94 Appointments can now winters generously. 95 Furry create distressed jewelers stains. 96 Sudden melting cause floods snows. 97 Lighted gentlemen dissolve furious appraisals. The key is in the sunlight at the window in the bars. She has lots of necklace. In order to get there before they close.

Check each of the above sentences to make sure each has been rated, but do not change any answers.



APPENDIX B

Complete Raw Data Matrix

 $G^* = 101-128$; $M^* = 201-228$; $F^* = 301-328$; $O^* = 401-428$



щ
PENDIX

	(Fage 1 0120	,
GMF 10	10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	10.0000
GMF 9	10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	10.0000
GMF 8	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.	1.0000
GMF 7	100.0000000000000000000000000000000000	10.0000
GMF 6	10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	2.00.00
GMF 5	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.	8.0000
GMF 4	100.0000000000000000000000000000000000	8.0000
6. FF 3	10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	7.0000
GMF 2		10.0001
GMF 1		10.000
LABEL	2011 2011 2012 2013 2014 2015 2017 2017 2017 2018 2017 2018 2018 2018 2018 2019 2019 2019 2019	63
	ように しょうしょう しょうしょう しょう しょう しょう しょう しょう しょう し	



	(Page 2 of 20)
GMF 10	9.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000
GMF 9	9.000000000000000000000000000000000000
GMF 8	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
GMF 7	8.00000 10.00000 10.00000 10.00000 8.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000
GMF 6	2.0000 1.0000 1.0000 1.0000 5.0000 3.0000 1.0000 1.0000 1.0000 1.0000 1.0000 4.0000 4.0000 4.0000 8.0000 6.0000 7.0000 7.0000 8.0000 7.0000
GMF 5	9.000000000000000000000000000000000000
GMF 4	9.00000 10.00000 1.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000
GMF 3	9.00000 10.00000 8.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000
GMF 2	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
GM F 1	8.0000 10.0000 10.0000 10.0000 3.0000 3.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
LABEL	222 2225 2226 2226 2227 2227 2227 2227 2
	8888311200000000000000000000000000000000



-MF 20	4.0000 9.0000 9.0000 9.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000	
-MF 19	5.0000 9.0000 9.0000 9.0000 9.0000 1.0000 9.0000 1.0000 9.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	•
-MF 18	25.000000000000000000000000000000000000	
-MF 17	8.0000 10.0000 17.00000 17.00000 17.00000 18.0000 19.00000 19.00000 19.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000000	
-MF 16	6.0000 9.0000 9.0000 9.0000 9.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000	
GMF 15	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	•
GMF 14	100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000) } }
GMF 13	10.00000 3.00000 3.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	
GMF 12	10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000	3
GMF 11	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	5
LABEL	1001 1001 1003 1004 1008 1008 1008 1008 1008 1009 1009 1009	777
	11111111111111111111111111111111111111	3



	-MF 20	9.0000 10.0000 9.0000 9.0000 9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	-MF 19	8.0000 6.0000 7.0000 9.0000 10.0000 10.0000 10.0000 9.0000 9.0000 9.0000 7.0000 7.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	-MF 18	8.0000 7.0000 5.0000 6.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	-MF 17	9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	-MF 16	9.0000 10.0000 2.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
1 (Cont)	GMF 15	9.0000 10.0000 3.0000 10.0000 8.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
Appendix Bl (Cont)	GMF 14	9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	GMF 13	9.0000 10.0000 8.0000 8.0000 3.0000 4.0000 7.0000 7.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 1
	GMF 12	9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
	GMF 11	1.0000 5.0000 2.0000 2.0000 1.0000 3.0000 4.0000 9.0000 9.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
	LABEL	2222 2224 22224 22224 3302 3302 3313 3323 3323 3323 3323 3323
		883211 883211 883211 8833211 8833211



	-HF 30	2.0000 2.0000 4.0000 2.0000 2.0000 2.0000 3.0000 4.0000 4.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	• • • • • • • • • • • • • • • • • • • •
	-MF 29	7.0000 8.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	•
	-MF 28	2.0000 9.0000 9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.000	T C* CCCC
	-MF 27	5.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00	• • • • • • • • • • • • • • • • • • • •
	-MF 26	7.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	10.0000
1 (Contd)	-MF 25	7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 8.0000 8.0000 7.0000 7.0000 8.0000 8.0000 7.0000 7.0000 7.0000 8.0000 8.0000 8.0000 7.0000 7.0000 8.0000 8.0000 7.0000 7.0000 8.0000 8.0000 7.0000 7.0000 8.0000 8.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000	10.000
Appendix Bl	-MF 24	4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.000
	-MF 23	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.	8.0000
	- MF 22	8.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	•
	-MF 21	5.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	9.
	LABEL	101 1001 1001 1001 1001 1001 1001 1001	
		りゅんりょうしょうちゃどこりなり ようらかをてこくられんりょうちゃくこう ちゅんりょうちゃくこうちゅんりょうちゃくこうなりょうちゃくこうない かかかかり おもををををををををなる スプスススストーニーニーニーニーニーニーニーニーニーニーニーニーニーニーニーニーニー	20



		** 3*			Appendix	Appendix Bl (Contd)					
	LABEL	-MF 21	-MF 22	-MF 23	-MF 24	-MF 25	-MF 26	-MF 27	-MF 28	-MF 29	-MF 30
		0	0000	0000.7	0000-0-	00000-0-	00000-6	000000	0.000	000000	0000-0-
	224	8,0000	10.0000	00000	5.0000	4.0000	10.0000	8.0000	8.0000	8.0000	7.0000
	225	0000 6	000006	2.0000	0000	7.0000	10.0000	0000*6	0000 • 5	1.0000	0000,
	226	00000.6	0000*6	4.0000	5.0000	2.0000	10.0000	0000-6	00000	2.0000	0000
	227	3,0000	10.0000	7.0000	2.0000	10.0000	10.0000	4.0000	2.0000	0.000	4-0000
	22.8	7.0000	10.0000	8.0000	7.0000	8.0000	8.0000	8.0000	2.0000	7.0000	16.0000
	301	0000 6	4.0000	5.0000	2.0000	1.0000	5.0000	0000*9	3.0000	000000	2.0000
. ہ	305	00000-0-		3.0000	2.0000		2.0000	-0.000	1.0000	0000-0-	00000
. ~	303	2,0000	1.0000	000000	000000	1.0000	3.0000	2.0000	1.0000	00000	00000
	304	-0.0000	10.0000	7.0000	8.0000	0000*9	2.0000	-0*0000	0000-0-	2.0000	8-0000
	305	10.0000	9,3000	5.0000	3.0000	2.0000	10.0000	8.0000	10.0000	10.0000	3.0000
. ~	306	7.0000	8.0000	4.0000	5.0000	7.0000	0000*6	8.0000	8.0000	8,0000	9.0000
	307	0000 6	0006.6	8.0000	7.0000	7.0000	9.5000	P 00°6	9.5000	2.0000	0006.6
٠.•	308	5.0000	7.0000	8.0000	3.0000	0000*9	10.0000	5.0000	7.000c	000009	0000
	309	-00000	-0°0000	5.0000	10.0000	0000*0-	8.0000	0000*0-	0000	0000-0-	1-0000
	310	4.0000	10.0000	0.0000	4.0000	0000.9	0000*9	4.0000	10.0000	4.0000	00000
. ~	311	5.0000	2,0000	0000.6	4.0000		1.0000	1.0000	0000 -0-	2.0000	2*0000
. ~	312	2.000	2,0000	1.0000	1.0000	1.0000	7.0000	6.0000	2.0000	5.0000	00000
, (r	313	5.0000	10.0000	0000*6	5.0000	0000*6	0000*6	000006	9,0000	0000-6	8.0000
٠.	314	6. C000	8.0000	4.0000	0000.9	2.0000	10.0000	8.0000	4.0000	0000	8.0000
. –	315	3,0000	8.0000	9 0000	000000	5.0000	5.0000	3.0000	2.0000	2.0000	00000
	316	3.0000	3.0000	3.0000	2.000.2	3.0000	7.0000	0000*9	3.0000	7.0000	2.0000
ı er	317	2.0000	0000*6	2,0000	4.0000	2.0000	0000*6	2.0000	10.0000	7.0000	0000
	318	5.0000	10,0000	0000.9	0000*9	0000 • 9	2.0000	7.0000	0000	0000	0000
س	319	2.0000	9,0000	000000	2.0000	6 • 0000	10.0000	3.0000	2.0000	0000	20000
, vo	320	8.0000	8.0000	8.0000	10,0000	5.0000	10.0000	8.0000	0000 - 1	9,0000	0000
~	321	5.0000	10.0000	5.0000	000000	-0.0000	7.0000	-0.0000	10.000	0000-0-	0000.0
- 02	322	0.0000	10.0000	2.0000	000000	0000 0	10.0000	1.0000	2.0000	1.0000	0.0000
	323	6.0000	8.0000	-0.0000	8.0000	0000.9	2.0000	2.0000	0000*6	2.0000	8.0000
	324	3,0000	10,0000	0000-6	2.0000	2.0000	10.0000	0000*9	3.0000	2.0000	1.0000
· –	325	00000	5.0000	000000	5.0000	2 • 0000	8.0000	10.0000	10.0000	2.0000	2.0000
. 7	326	2.0000	8.0000	2.0000	0000 • 0-	8.0000	5.0000	2.0000	10.0000	10.0000	2.0000
m	327	8.0000	8.0000	5.0000	8.0000	8.0000	0000-6	9.000	0000	0000	0000
٠	328	5.0000	10.0000	5.0000	2.0000	2.0000	2.0000	8*0000	3.0000	3.0000	***

6 40	10.0000 2.0000 2.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.00	0000 * 0
6 39	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.	2.0000
G 38	2. 0000 1.	4.0000
6 37	22.0000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.00000 10.0000	1.0000
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-MF 31	-0.0000 9.0000 8.0000 9.0000 9.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
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-H- 50	8,0000 3,0000 1,0000 1,0000 1,0000 5,0000 5,0000 6,0000 6,0000 6,0000 6,0000 7,0000 8,0000 10,0000 7,0000 7,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000 10,0000
-M- 49	7.0000 4.0000 5.0000 5.0000 5.0000 6.0000 6.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000
-M- 48	9.0000 1.0000 1.0000 4.0000 5.0000 5.0000 6.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 6.0000 6.0000 6.0000 7.0000 7.0000 7.0000 6.0000 6.0000 7.0000 7.0000 7.0000 6.0000 6.0000 7.0000 7.0000 7.0000 6.0000 6.0000 7.0000 7.0000 7.0000 6.0000 7.0000 7.0000 7.0000 6.0000 6.0000 7.0000 7.0000 6.0000 6.0000 7.0000 7.0000 7.0000
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6 41	9. 60000 10. 00000 10. 00000
LABEL	
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Appendix B1 (Contd)	-H- 50	10.0000 1.0000 1.0000 1.0000 1.0000 1.0000 2.0000 2.0000 2.0000 4.0000 4.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000 7.0000	
	64 -K-	10000000000000000000000000000000000000	,
	87 -W-	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	10011
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		GMF 10	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.9	0.6	9.5	0.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0	10.0	10.0	10.0	10.0	0,0	ο .	10.0	10.0
:		GMF 9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	າ 0 •01	9 .0	10.0	J•0	8,0	10.0	10.0	10.0	10.0	10.0	10.0	0*6	10.0	10.0	10.0	10.0	0.6	Q•2	10.0	0. 0.
	•	GMF 8	10.0	0	10.0	10.C	7° 0	o	2∙0	0°½	10.0	သီ	10°C	o -10	O *	10.0	10.0	10.0	10.0	10.0	5,0	0	0°8	10.0	10.0	. <u>7</u> .0	٠	0.9	0 . 6	5,0
		GMF 7	7.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.0	10.0	0 - -	10.0	10.0	°	10.0	10.0	10.0	10.0	၀	10.0	10.0	10.0	0.6	0 &	0 8	0.6	0.6
	uctions	GMF 6	2.0	5.0	o	5.0	0.6	8	0.6	5.0	5.0	0• 9	5.0	• 0	10.0	•	2.0	10.0	10.0	10.0	3.0	0• 4	10.0	ο• ω	0 • ð	10.0	2.0	3.0	8	0.ŧ
DIX B2	Subjects Given Ordinariness Instructions	GMF 5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0 ° 6	10.0	10.0	10.0
APPENDIX	Given Ordina	GMF 4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	Subjects	GMF 3	0.6	10.0	10.0	0.6	10.0	10.0	10.0	10.0	9.0	0.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.6	10.0	0 . 8	10.0	10.0	10.0	0.0	10.0	10.0
		GMF 2							10.0										•			•						8 .0		
		GMF 1	6.0	10.0	10.0	10.0	10.0	10,0	10.0	10.0	0.8	16.0	10.0	7.0	0°6	10.0	8	10.0	10.0	10.0	10.0	1C.0	10.0	0.5	0.0	10.0	9.6	တီ	10.0	10.0
		IABEL	401	402	403	404	405	406	407	408	400	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428
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	-MF 18		0000 0000
	-MF 17		0.0004
(1	-MF 16		100 100 100 100 100
Appendix B2 (Contd)	GMF 15		10.0 8.0 9.0 10.0
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	GMF 13		0.00 0.00 0.00 0.00
	GMF 12		10.00 0.00 10.00 0.00
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			4 C C L E

	-MF 30	2.0	7.0	0.01	4 •0	7.0	1.0	o ,	8.0	O. 8	۰ 0	0.6	9.0	10.0	10.0	10.0	10.0	2.0	0.6	7.0	•	o• 8	8	2.0	3.0	4.0	0.9	0.6	1.0	1
	-MF 29	2.0	0. 9	Ò• •	2.0	7.0	0 8	۷.۰	7.0	7.0	S.0	4.5	•	10.0	0.9	0	10.0	4.0	0.6	7.0	o,	2.0	7.0	3.0	8.0	7.0	0•≥	0.6	۲۳. د	•
	-MF 28	1.C	0.9	•	4. C	8°C	2.0	10.0	10.0	10.0	o •6	8.0	•	5.0	7.0	•	10.0	2.0	8.0	2.0	3.0	2.0	3.0	1.0	ວ • 8	4.0	2 · C	10.0		•
	-MF 27	2.0	5.0	ۥ0	4.0	0.6	1.0	8.0	4.0	7:0	6.0	8.6	°	0.6	10:0	G	8.0	4.0	8.0	7.0	3.0	5.0	7.0	1.0	8.0	0.9	7.0	0.6		•
ntd)	-MF 26	3.0	7.0	10.0	10.0	10.0	0.9	10.0	10.0	10.0	0° 6	10.0	9.0	10.0	2.0	0	10.0	0.40	0.6	8•0	0	8.0	10.0	10.0	8.0	7.0	10.0	10.01		0
Appendix B2 (Contd)	-MF 25	2.0	7.0	•	9.5	0.0	• •	6.0	3.0	7.0	0.9	7.0	0	10.0	3.0	•	0.9		0 . 8	5.0	0	0.9	0.6	3.0	8.0	0.9	0.0	2.0	- 1	0.0
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	-MF 23	0.6	0.6	0	0.4	3.0	1.0	0.9	5.0	7.0	5.0	9		. 4		ċ	ς α		10.0		, x	9	8.0	2-0				, c	7.0	O. *
,	-MF 22	2.0	0	10.0	0.9	0	0.8	10.0	10.0	10.0	7-0		2		0.0	o C		0.0) C	0 0	7.0	O G	10.0		0	•	ָר אילי	o.c	0 %
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Appendix B2 (Contd)	6 36		
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	6 36	11.00 0.10 0.00 0.00 0.00 0.00 0.00 0.0	
	6 35	41.000000000000000000000000000000000000	
	6 34	74.14.00 W W W W W W W W W W W W W W W W W W	
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	-iMF 31		
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	111	0.1 9	•	3.0	0.	• •	M	J • L	4.0	3.0	•	10.0	•	•	2.0	•	٠	•	•	•	•	•	•	•	•	•	•
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Appendix B2 (Contd)	6 45	0,°) + O	3.0	•	• u	10	• 0	0•.⊤	0° †	•	0•.6	•	•	3.•0	Ö	0 Ř	ō	0 •0	۰÷ ئن• 0	8.0	3.0	8.0	٠. ن	2.0	7.0	1.0
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	G-F 90	04 FN00 FH00004000 FO FW F W W 4 NO
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	GM- 87	8 6 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	GM- 86	
Appendix B2 (Contd)	GM-85	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	GM- 83	
	GM- 82	00000000000000000000000000000000000000
	GM- 81	
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	F 96	0.9	5.0	ċ	0•6	10.01	10.0	8.0	0.6	7.0	0.7	9.8	8,0	10.0	0.6	10.0	10.0	•0	10.0	10.0	8.0	ο. Θ	0.6	2.0	0.6	0.6	0.6	10.0	3•0	
Appendix B2 (Contd)	F 95	8;0 8	54.0	• 0	10,0	3•0	0.01	0.6	0 <u>.</u> 2	φ. •0	7.0	٥٠٦	<u>ر</u> • 0	7.0	•	10.0	ċ	<u>ر</u> • 0	0.9	<u>ل</u> :0 لائ	10•0	0.8 8:0	0•4	·	J. 0	0.6	1.0	5.0	1,0	
Appendi	G-F 94	8.0	. 5×0	10.0	0.9	•	0°,2	7.0	5.0	٥ • ٣	0.6	0• 4	°.	8.0	·	ô	10.0	•	2.0	7.0	•	7 • 0	4.0	7.0	8.0	0.8 8	5.0	5.0	•	
	G-F 93	4.0	3.0	0.9	0.6	0°0	3.0	7. 0 • 7	7 • 0	0. 9	7.0	2:0	·	7.0	5.0	•0	2.0	3.0	7•0	3.0	3.0	0.9	7.0	1.0	o•8	0•9	0• †	10.0	0 • ‡	
	G-F 92	7.0	7 · C	0.6	10.0	3.0	0.6	0.7	10.0	0.6	J • C	8.0	•	0.6	o•9	• O	10.0	10.0	10.0	ပ 8	3.0	8.0	10.0	7.0	10.0	8.0	7.0	10.0	10.0	
	G-F 51	6.0	5 0	0.6	0.8	3.0	0.6	0.7	•	0•4	0.6	o. .+	•0	10.0	3.0	•	10 ° C	•	•	0 • L	•	J•7	0 • 9	10.0	10.0	0.6	5.0	7.0	•0	
	LABEL	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	454	425	456	427	428	
			2	m	4	ĸ	Q	~	80	6	10	,t	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	

APPENDIX C

Complete Factor Loadings and Factor Scores

After an Orthogonal Rotation



Appendix C

Orthogonal Rotation--Factor Loadings

			_	G	М	F
1	GMF	1	3.1383	1.4243	1.6720	-0.1751
2	GMF	2	3.1721	1.7103	1.2361	-0.0803
3	GMF	3	3.4590	1.4402	1.1187	-0.0488
4	GM'F	4	3.5915	1.5269	0.8539	0.1614
5	GMF	5	3.5630	1.4190	1.2863	0.0259
6	GMF	6	1.2894	1.7657	1.2248	0.3218
7	GMF	.7	2.9010	1.7106	1.6157	-0.1578
8	GMF	8	1.8312	1.9775	1.1521	0.5263
9	GMF	9	3.1806	1.5249	1.6551	-0.2111
10	GMF	10	3.3110	1.4947	1.5081	-0.1228
11	GMF	11	1.7622	2.1512	1.6204	-0.3757
12	GMF	12	3.2288	1.6215	1.4908	-0.1553
13	GMF	13	2.2870	1.7509	1.6693	-0.2264
14	GMF	14	2.9109	1.7104	1.6226	-0.2908
15	GMF	15	3.1187	1.6288	1.5639	-0.1378
16	-MF	16	3 . 8168	0.2560	0.7060	0.3608
17	-MF	17	3.1742	0.2942	0.9131	0.4017
18	-MF	18	2.9707	-0.6638	0.5450	1.3243
19	-MF	19	3 - 0072	-0.1484	1.1485	0.9286
20	-MF	20	3.4167	-0.6563	1.0460	0.9755
21	-MF	21	0.8627	0.0501	2.4774	0.5317
22	-MF	22	2.6332	0.7977	1.6771	0.0572
23	-MF	23	1.1794	0.8553	0.6829	1.6507
24	-MF	24	0.8451	0.4412	1.5437	0.3143
25	-MF	25	0.8315	1.0173	1.7401	.0.6358
26	-MF	26	2.4613	0.3953	1.8989	0.3641
27	-MF	27	1.2838	0.6404	2.4346	0.2564
28	-MF	28	0.8999	0.4422	2.7762	-0.1470
29	-MF	29	1.0368	1.2425	1.9730	0.0474
30	-MF	30	1.2183	0.9471	2.6047	-0.3238
31	-MF	31	1.4559	0.1420	2.3873	0.3165
32	-MF	32	1.2786	0.2303	2.6641	0.1925
33	Ģ	33	0.1380	0.2565	0.2301	1.6928
34	G	34	-0.2868	1.6162	0.5097	1.2849
35	G	35	0.5091	2.2774	-0.2943	1.2858
36	G	36	0.1403	1.8979	-0.0154	1.3104
37	G		-0.1601	0.8854	0.3862	1.3180
38	G		0.2644	2.0856	0.3384	1.2273
39	G		0.2518	2.4156	0.3383	1.3912
40	G		0.2320	2.3561	0.4613	1.1378
41	G		-0.1427	1.7133	0.0671	1.1561
42	G		0.0078	2.4610	0.4331	1.0393
43	G		0.0444	2.4233	0.1999	1.3118
44	G		0.0472	2.4865	0.1909	1.2968
45	G		-0.0193	1.6625	0.6049	1.1808
46	G		0.3.07	2.4854	0.1495	0.8099
47	G		-0.0384	2.1465	-0.1401	0.8796
48		48	0.5564	0.9860	2.6207	0.1803
49	-M-		0.5545	0.1065	2.5131	1.0216
50	-M-	50	1.3076	1.0333	2.5379	0.0253



Appendix C (Contd) G M

		G	M	F
-M- 51	0.6596	0.8871	2.7242	0.3913
-M- 52				0.3085
-M- 53	0.2070	0.1481	1.2230	1.7473
-M- 54	0.5665	-0.1711	2.1481	1.0206
-M- 55	0.1935	0.1146	0.9999	1.5811
-M-56	0.7061	0.2843	2.0019	1.2807
-M- 57				1.4435
-M- 58				1.4514
-M- 59				1.1185
-M- 60				1.6760
-M- 61	0.3959	-0.3750		1.1659
-M- 62	0.3342	-0.0311	1.9881	1.4587
1 63	0.0489		-0.0370	1.1486
64	0.0920	0.1912	-0.0784	1.3034
65				1.2519
66	0.0128	0.0803		1.0482
67	-0.0685			1.2033
68	0.1879	0.1231	-0.0129	1.5321
69	-0.0920	0.2959	0.5458	0.9197
 70	-0.0170	0.3309	0.2019	1.3799
 71	0.1255	0.4313	0.0389	1.5636
72	0.1200	0.2786	0.3962	1.6197
 73	-0.0076	0.4668	0.1658	1.3734
74	-0.1147	0.6916	0.2299	1.1463
 75	0.2688	0.2077	-0.0445	1.1668
 76	0.1924	0.0121	0.2498	1.2722
 77	Ü.1208	0.4375	n.1412	1.3315
GM- 78	1.3231	1.7105	2.0295	-0.5241
GM- 79	2.4081	2.0058	0.1261	0.4232
	1.1680	1.7495	0.4908	0.8728
				0.1984
				0.2507
				-0.0869
				0.3919
				-0.0646
				0.2801
				-0.453R
				0.1501
				0.3659
				0.2402
				-0.9773
				0.2637
				0.3789
				-0.6143
				0.9232
				1.0428
				0.8372
				1.3636
				1.6809
	J. 5556	0.5,211	0.4268	0.2701
	-M- 52 -M- 54 -M- 55 -M- 55 -M- 57 -M- 58 -M- 61 -M- 62 -M- 63 -M- 63 -M- 65 -M- 65 -M- 67 -M- 77 -M- 77	-M- 52 -M- 53 -M- 54 -M- 55 -M- 55 -M- 56 -M- 57 -M- 58 -M- 59 -M- 60 -M- 60 -M- 61 -M- 62 -M- 63 -M- 62 -M- 63 -M- 64 -M- 65 -M- 65 -M- 65 -M- 65 -M- 67 -M- 68 -M- 68 -M- 70 -M- 71 -M- 71 -M- 72 -M- 73 -M- 74 -M- 75 -M- 75 -M- 78 -M- 78 -M- 78 -M- 78 -M- 79 -M- 70 -M	-M- 51 -M- 52 -M- 53 -M- 53 -M- 54 -M- 55 -M- 56 -M- 57 -M- 58 -M- 57 -M- 58 -M- 58 -M- 59 -M- 59 -M- 59 -M- 61 -M- 60 -M- 61 -M- 63 -M- 62 -M- 63 -M- 63 -M- 64 -M- 63 -M- 64 -M- 65 -M- 65 -M- 65 -M- 65 -M- 63 -M- 64 -M- 60 -M- 63 -M- 64 -M- 65 -M- 66 -M- 70 -M- 67 -M- 68 -M- 70 -M- 69 -M- 70 -M	-M- 51

Appendix C (Contd)

Orthogonal Rotation--Factor Scores

1 101 1.0787 3.0691 1.1466 1.2325 2 102 2.2717 1.4413 0.2036 0.4328 3 103 0.6138 2.9694 0.7101 0.7296 4 104 1.4439 1.6894 0.2335 -0.5186 5 105 1.3693 1.9628 1.5245 -0.5896 6 106 0.5663 3.3310 1.9588 1.8011 7 107 1.4454 2.5761 0.8218 0.4097 8 108 1.9897 1.5581 0.3704 -0.3452 9 109 2.3366 1.7027 0.2031 -0.1394 10 110 1.9074 1.6268 1.4152 -1.2072 11 111 1.1965 3.1019 1.0740 -0.2623 12 112 1.2119 3.7921 -0.4874 -0.2084 13 113 0.9383 2.0398 0.0923 -0.2099 14 114 1.5802 1.9284 1.0880 -0.2223 15 115 1.7092 1.6987 0.8644 1.2450 16 116 2.2825 0.8542 -0.5919 1.0951 17 117 1.3426 2.5489 0.4992 1.0354 18 118 1.3384 1.9837 2.0334 0.1944 19 119 0.8379 2.9159 1.9558 0.3224 20 120 1.3413 2.5697 0.3823 -0.5238 21 121 1.8967 1.9118 0.9970 -0.1686 22 122 1.4906 3.0726 0.8135 0.5238 22 122 1.4906 3.0726 0.8135 0.5238 23 123 1.6246 1.3764 0.9271 -0.4607 24 124 0.3873 4.2315 1.2688 -0.7115 25 125 1.7973 1.7562 -0.8572 -0.5718 26 126 2.2505 1.1855 1.0911 -0.0906 27 127 1.3349 2.1146 1.5456 1.7585 28 128 1.4349 1.4168 0.5265 1.4192 29 201 2.2362 0.3388 1.0128 -0.07163 20 20 1.6604 0.1902 2.7510 0.1690 31 203 2.2372 1.1018 1.1814 0.7954 32 204 1.3243 0.6888 1.3288 -0.0528 33 205 1.9383 -0.1402 2.6841 0.5128 34 206 1.3328 0.9941 2.0270 1.1693 35 207 1.3753 1.2566 2.4751 0.5528 36 208 1.6251 1.5412 1.0513 1.4494 37 209 1.9258 0.9822 2.0778 0.6646 38 210 2.3883 0.1370 1.7949 -0.5526 39 211 2.2018 -0.4809 0.3717 -0.1007 40 212 1.9312 1.0714 1.9356 1.05748 42 214 2.6777 0.4144 0.3652 -0.4166 43 215 2.0210 0.9855 1.4995 -0.5938 48 220 1.5993 0.1577 1.8892 -0.4939 48 220 1.5993 0.1577 1.8892 -0.4939 49 221 2.5797 0.8103 0.2785 -0.2655				~	М	751
2 102 2.2717 1.4413 0.2036 0.4328 3 103 0.6138 2.9694 0.7101 0.7296 4 104 1.4439 1.6894 0.2335 -0.5186 5 105 1.3693 1.9628 1.5245 -0.5896 6 106 0.5663 3.3310 1.9588 1.8011 7 107 1.4454 2.5761 0.8218 0.4097 8 108 1.9897 1.5581 0.3704 -0.3452 9 109 2.3366 1.7027 0.2031 -0.1394 10 110 1.9074 1.6368 1.4152 -1.2072 11 111 1.1965 3.1019 1.0740 -0.2623 12 112 1.2119 3.7921 -0.4874 -0.2084 13 113 0.9383 2.0398 0.0923 -0.2099 14 114 1.5802 1.9284 1.0880 -0.2223 15 115 1.7092 1.6987 0.8644 1.2450 16 116 2.2825 0.8542 -0.5919 1.0951 17 117 1.3426 2.5489 0.4992 1.0354 18 118 1.3384 1.9837 2.0334 0.1944 19 119 0.8379 2.9159 1.9558 0.3224 20 120 1.3413 2.5697 0.3823 -0.5238 21 121 1.8967 1.9118 0.9870 -0.1686 22 122 1.4906 3.0726 0.8135 0.5676 23 123 1.6246 1.3764 0.9271 -0.4607 24 124 0.3873 4.2315 1.2688 -0.7115 25 125 1.7973 1.7562 -0.8572 -0.5718 26 126 2.2505 1.1855 1.0911 -0.0906 27 127 1.3349 2.1146 1.5456 1.7585 28 178 1.4349 1.4168 0.5265 1.4192 29 201 2.2362 0.3388 1.0128 0.0578 30 202 1.6604 0.1902 2.7510 0.1690 31 203 2.2372 1.1018 1.1814 0.7554 32 204 1.3323 -0.1402 2.6841 0.5129 34 206 1.3328 0.9941 2.0270 1.1693 35 207 1.3753 1.2566 2.4755 1.529 36 208 1.6251 1.5412 1.0513 1.4944 37 209 1.9258 0.9822 2.0778 0.6646 38 210 2.3883 0.1370 1.7949 -0.5526 39 211 2.2018 -0.4809 0.3717 -0.1007 40 212 1.9383 -0.1402 2.6841 0.5129 34 206 1.3328 0.9941 2.0270 1.1693 35 207 1.3753 1.2566 2.4751 0.5209 36 218 2.2362 0.3888 1.0128 -0.0417 37 209 1.9258 0.9822 2.0778 0.6646 38 210 2.3883 0.1370 1.7949 -0.5526 39 211 2.2018 -0.4809 0.3717 -0.1007 41 213 0.7267 0.7480 2.0619 0.8944 42 214 2.6777 0.4144 0.3652 -0.4166 43 215 2.0210 0.9855 1.4945 0.7466 44 216 1.6518 2.0797 1.8849 0.7105 46 218 1.7016 0.6830 2.3334 0.6152 47 219 1.8135 0.2399 2.3049 -0.5032 48 220 1.5993 0.1577 1.8892 -0.4392	1	101	1.0787	G 3.0691		F 1 2225
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4 104 1.4439 1.6894 0.2335 -0.5186 5 105 1.3693 1.9628 1.5245 -0.5896 6 106 0.5663 3.3310 1.9588 1.8011 7 107 1.4454 2.5761 0.8218 0.4097 8 108 1.9897 1.5581 0.3704 -0.3452 9 109 2.3366 1.7027 0.2031 -0.1394 10 110 1.9074 1.6268 1.4152 -1.2072 11 111 1.1965 3.1019 1.0740 -0.2623 12 1212 1.2119 3.7921 -0.4874 -0.2084 13 113 0.9383 2.0398 0.0923 -0.2099 14 114 1.5802 1.9284 1.0880 -0.2223 15 1.5779 1.6987 0.8644 1.2450 16 116 2.2825 0.8542 -0.5919 1.0354 17						
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8 108 1.9897 1.5581 0.3704 -0.3452 9 109 2.3366 1.7027 0.2031 -0.13452 10 119 2.3366 1.7027 0.2031 -0.13452 11 111 1.1965 3.1019 1.0740 -0.2623 12 112 1.2119 3.7921 -0.4874 -0.2084 13 113 0.9383 2.0398 0.0923 -0.20299 14 114 1.5802 1.9284 1.0880 -0.2223 15 115 1.7092 1.6987 0.8644 1.2450 16 116 2.2825 0.8542 -0.5919 1.0951 17 117 1.3426 2.5489 0.4992 1.0354 18 118 1.3384 1.9837 2.0334 0.1944 19 119 0.8379 2.9159 1.9558 0.3224 20 120 1.3413 2.5697 0.3823 0.5238 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<>						
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11 111 1.1965 3.1019 1.0740 -0.2623 12 112 1.2119 3.7921 -0.4874 -0.2084 13 113 0.9383 2.0398 0.0923 -0.2099 14 114 1.5802 1.9284 1.0880 -0.2223 15 115 1.7092 1.6987 0.8644 1.2450 16 116 2.2825 0.8542 -0.5919 1.0951 17 117 1.3426 2.5489 0.4992 1.0354 18 118 1.3384 1.9837 2.0334 0.1944 19 119 0.8379 2.9159 1.9558 0.3224 20 1.3413 2.5697 0.3823 -0.5238 21 121 1.8967 1.9118 0.9870 -0.1686 22 122 1.4906 3.0726 0.8135 0.5676 23 123 1.6246 1.3764 0.9271 -0.4607 24 124 0.3873 4.2315 1.2688 -0.7115 25						
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48 220 1.5903 0.1577 1.8892 -0.4392 49 221 2.5797 0.8103 0.2785 -0.2965						0.6152
49 221 2.5797 0.8103 0.2785 -0.2965			1.8135	0.2399	2.3049	-0.5032
			1.5903	0.1577		-0.4392
	49	221	2.5797	0.8103	0.2785	-0.2965
	50	222	1.5977	0.2077	3.0878	0.2630



-C4-

Appendix C (Contd)

			G	М	F
51	223	3.0076	0.3314	-1.0053	-0.1041
52	224	1.8089	0.3236	2.3684	-0.8741
53	225	2.0944	-0.3583	1.6719	0.3090
54	226	0.5112	0.2882	3.7220	-0.5120
55	227	1.6985	-0.3280	1.9754	0.7573
56	228	1.8365	1.7435	2.0048	0.6527
57	301	1.4642	-0.2391	0.4453	0.2724
58	302	2.7839	0.0442	-0.8793	0.1046
59	303	2.6111	0.4987	-0.4997	-0.2833
60	304	2.8211	0.9442	0.3786	-0.1325
61	305	2.0642	0.0576	1.4910	1.5470
62	306	1.9526	0.9950	1.6707	2.0386
63	307	2.2938	-0.2465	2.1943	-0.2162
64	308	2.4130	-0.1237	1.4629	0 .7 785
65	309	2.8829	-0.1567	-0.3355	-0.1994
66	310	2.2060	0.2457	1.1805	-0.7798
67	311	-0.7139	1.2753	1.0248	5.1282
68	312	2.7225	0.6940	0.6373	-0.2575
69	313	1.7036	2.4673	1.4935	2.8903
70	314	2.2999	0.4019	0.8592	0.0958
71	315	2.1708	1.2667	0.9467	-0.6585
72	316	2.4850	0.6529	0.0909	0.6317
73	317	1.8361	0.5355	1.3618	1.4195
74	318	2.4429	0.4428	1.1124	1.1714
75 76	319	2.1854	1.0465	1.0454	-0.7820
77	320 321	2.3212	0.6085	1.4521	1.2913
78	322	2.0370 2.2210	-0.8843 -0.0650	1.9138 -0.4251	0.4606 -0.2954
79	323	1.3328	-0.3674	2.3417	0.1254
80	324	2.9117	0.2331	0.0999	-0.2212
81	325	2.6341	-0.5418	0.3330	-0.2212
32	326	2.1788	0.8865	0.6154	-0.6412
8.3	327	1.9888	0.9767	1.4663	1.9465
84	328	2.3840	1.0394	0.4387	1.4171
JT	220	C • 2040	1000/7	0.4701	10411



APPENDIX D Complete Factor Loadings and Factor Scores After an Oblique Rotation



Appendix D

Oblique Rotation -- Factor Loadings

	T	G	М	F
1	6.426	3.024	1.209	-0.458
1 2	6.512	3.838	0.665	0.030
3	6.550	3.372	0.536	-0.206
4	6.501	3.704	0.198	0.230
5	6.546	3.276	0.710	-0.175
6	3.604	3.547	C.894	1.314
7 8	6.360 4.304	3.612 -4.155	1.132 0.695	-0.102 1.673
ģ	6.618	3.257	1.169	-0.441
10	6.618	3.285	0.588	-0.328
11	5.511	4.305	1.232	0.268
12	6.565	3.547	0.960	-0.244
13	5.66 7	3.539	1.274	-0.002
14 15	6.518 6.531	3.610 3.507	1.143 1.056	-0.323 -0.193
16	5.250	1.085	0.202	-0.549
17	4.452	0.935	0.518	-0.302
18	2.095	-1.007	0.260	0.539
19	3.296	-C.156	0.861	0.175
20 21	3.246 1.493	-1.113 -C.787	0.770 2.637	-0.278 0.043
22	4.865	1.562	1.381	-C.453
23	0.928	1.806	0.406	2.866
24	1.778	0.459	1.533	0.249
25	2.069	1.611	1.651	1.211
26	3.973 2.937	0.562	1.711	-0.294
27 28	2.767	0.594 ~C.C68	2.442 2.926	-0.027 -0.810
29	3.282	2.037	1.866	0.328
30	3.838	1.163	2.611	-0.730
31	2.582	-C.419	2.444	-0.390
32	2.660	-0.390	2.770	-Q-528
33 34	-1.281 0.060	C.48 <i>6</i> '3.194	0.141 0.305	2.862 3.408
35	1.525	5.145	-C.819	3.912
36	0.713	4.124	-0.392	3.680
37	-0.590	1.704	0.268	2.838
38	1.281	4.40C	-0.040	3.580
39 40	1.424 1.649	5.108 4.921	-0.098 0.061	4.127 3.643
41	0.338	. 3.628	-0.224	3.342
42	1.550	5.109	0.047	3.647
43	1.190	5.139	-0.223	4.102
44	1.271	5.280	-0.243	4.132
45	0.543 2.218	3.299 5.247	0.377 -0.320	3.188 3.250
46 47	1.14?	5.367 4.673	-0.534	3.276
48	v 2.455	1.095	2.699	0.321
49	∠0.625	-0.748	2.695	0.971
50	V 3.650	1.398	2.498	-0.103
51	✓2.304	C. 860	2.810	0.523
52 53	√2.715 -1.016	0.373 -0.167	2.991 1.263	0.041 2.599
54	0.235	-1.183	2.329	0.820
55	-0.967	-0.145	1.025	2.360
56	0.558	-0.107	2.062	1.617



-D2-

Appendix D (Contd)

	T	G	M	F
5 7	-0.402	-1.146	2.340	1.585
58	-0.553	-C.153	1.404	2.095
59	0.113	-1.402	2.912	0.920
60	-1.172	-0.573	0.906	2.301
61	-0.449	-1.539	2.076	1.002
62	-0.457	-0.861	2.144	1.758
63	-1.908	0.377	ċc. 113	1.991
64	-1.099	C.470	~0.176	2.264
65	-1.013	C.476	-0.027	2.188
66	-0.984	C.133	0.067	1.738
67	-1.063	0.513	0.C59	2,168
68	-1.261	C.316	-0.112	2.532
69	-0.617	0.379	0.547	1.637
70	-1.090	0.623	0.129	2.472
71	-1.048	0.943	-0.096	2.849
72	-1.148	C.457	0.329	2.727
73	-0.944	0.934	0.065	2.581
74	-0.596	1.365	0.123	2.420
75	-0.687	0.529	-0.161	1.993
76	-1.000	0.038	0.210	1.953
77	-0.765	0.910	0.026	2.455
78	4.771	3.080	1.831	-0.307
79	4.867	4.793	-0.541	1.597
80	2.585	3.809	0.071	2.407
81	5.070	4.990	0.258	1.426
82	4.468	5.789	0.396	2.127
83	6.174	5.588	-0.343	0.985
84	3.805	5.825	0.445	2.456
85	5.884	5.428	-0.024	1.046
86	4.048	5.885	-0.291	2, 283
87	5.632	4.640	1.113	0.298
88	5.243	1.658	0.511	-0.479
89	3.914	3.915	1.275	1.511
90	2.484	4.422	0.029	1.950
91	5.549	4.730	0.065	-0.401
92	4.950	.4.605	€.887	1.397
93	2.997	2.741	1.598	1.202
94	4.143	4.606	-0.265	0.405
95	3.534	0.394	0.075	₩.320
96	3.156	-0.916	-0.410	-0.166
97	-0.053	0.739	-0.206	1.481
98	2.330	-0.582	0.564	0.777
99	-0.721	0.463	0.603	2.703
100	5.139	1.715	-0.112	-0.319



-D3Appendix D (Contd)

Oblique Rotation--Factor Scores

		T	G	M	F
1	1	1.2339	0.3047	1.1030	1.5944
2	<u>1</u> 2	2.2009	-1.0785	-0.5473	1.7066
3	. *	0.6236	0.8148	0.9472	0.8783
4	4	1.1628	0.0600	-0.0287	0.4448
5	15	1.2641	0.2573	1.1860	0.4525
6	<u>6</u>	0.9528	0.5593	2.0503	1.7790
7	7	1.3894	0.1274	0.6089	1.1788
8	3	1.7544	-0.4863	-0.1953	0.9388
Ġ	9	2.1065	-0.7450	-0.4772	1.2923
10	10	1.5949 0.9783	-0.0481 0.8675	0.8240 1.1032	0.3154 0.5030
11 12	11 12	10.7721	1.2437	-0.1034	0.3752
13	13	C. 7083	0.4913	0.1301	0.3385
14	14	1.4463	-0.0588	0.6806	0.8288
15	15	1.9127	-0.8882	0.2728	2.0342
16	16	2.3213	-1.6589	-1.4179	2.1777
17	17	1.4039	-0.0670	0.3247	1.5695
18	1.8	1.4168	-0.0523	1.5874	1.0869
19	19	0.8905	0.7611	1.9413	0.8232
20	20	1.0142	0.6047	0.3416	0.3503
21	21	1.7526	-0.3193	0.4448	1.0593
22	22	1.4213	0.293 9	0.6805	1.3056
23	23	1.4547	-0.2822	0.4154	0.6823
24	24	0.0312	2.2485	1.9156	-0.3836
25	25	1.3574	-0.1120	-1.1099	0.5184
26	25	2.1779	-1.0026	0.2100	1.3838
27	27	1.7242	-0.6257	1.0835	2.2430
28	28	1.6727	-0.9030	0.0278	1.9788
29	29	2.2291	-1.4535	-0.0386	1.4438
30	31)	1.9416	-1.2562	1.6673	1.4185 2.6734
31 32	31 32	2.3940 1.3624	-1.4131 -0.5128	0.2113 0.7150	0.8799
33	33	2.3079	-1.7795	1.3874	1.8671
34	34	1.7245	~1.0098	1.2851	1.8845
35	35	1.6396	-0.6176	1.7675	1.4377
36	36	1.9145	-1.0020	0.4220	2.1647
37	37	2.1771	-1.2176	1.1075	1.8678
38	38	2.36¢6	-1.4886	0.5571	1.2270
3 9	39	2.1702	-1.8351	-0.7595	1.3543
40	40	2.2555	-1.3399	0.9729	2.1658
41	41	1.0961	-0.5617	1.5594	1.3061
42	42	2.4836	-1.571.9	-0.7554	1.3653
43	43	1.8581	-0.6633	0.6651	0.7661
44	44	1.8682	-0.4412	1.2158	1.6541
45	45	2.5090	-1.9848	0.7687	2.6955
46	46	2.0022	-1.1995	1.3653	1.7275
47	47	1.8720	-1.0469	1.2732	0.9496
48	48 40	1.6307	-0.9437 -1.3365	0.9906 -0.7073	1.3707
4 9	4 9 50	2.3783 1.9418	-1.3363	1.9833	1.4831
50	29	T * 24 T.O	-104472	x ● 7000	**エロンド



-D4Appendix D (Contd)

		T	G	M	F
51	51	2.7218	-1.9536	-2.1277	1.6877
52	52	1.7799	-0.8442	1.3756	0.6619
53	53	2.3075	-1.8983	0.4694	1.7213
54	54	0.7805	-0.1012	3.0894	0.2610
55	55	2.0676	-1.7890	0.8224	1.8482
5 6	56	2.0227	-0.7377	1.2543	1.7610
^{"57}	57	1.5415	-1.3259	-0.3405	1.1782
58	58	2.5932	-2.0348	-1.9980	1.7356
59	59	2.3444	-1.5116	-1.4640	1.3414
60	5 0	2.6511	-1.5132	-0.7105	1.6516
61	61	2.5224	-2.1701	0.2695	2.6242
62	62	2.4833	-1.7983	0.6473	2.9088
63	63	2.4257	-1.7758	0.8348	1.4836
64	64	2.6839	-2.1981	0.1051	2.2531
65	6 5	2.6940	-2.1010	-1.5949	1.6217
66	66	2.0513	-1.1853	0.1481.	0.8744
67	67	C.5654	-0.9811	1.1162	3.5603
68	-68	2.5754	-1.5291	-0.4896	1.5292
69	69	2.3166	-1.1819	0.8707	3.3278
70 [*]	70	2.3(1.9	-1.530 7	-0.2000	1.5731
71	71	1.9425	-0.6579	0.1799	0.8773
72	72	2.4996	-1.7375	-0.9293	2.0193
73	73	2.3218	-1.6903	0.3749	2.3489
74	74	2.7232	-2.0730	-0.1136	2.5167
75	75	1.9550	-0.7370	0.2186	0.8102
76	76	2.6621	-1.9546	0.2623	2.5579
77	77	2.3564	-2.2080	0.5162	1.8498
78	78	2.0179	-1.5247	-1.3501	1.1214
7 9	79	1.6107	-1.2859	1.3388	1.1672
80	30	2.7279	-1.9155	-1.1433	1.6460
81	81	2. 5812	-2.1765	-0.9978	1.6095
82	82	1.9443	-0.8659	-0.1957	0.8819
83	93	2.4736	-1.7905	0.4571	2.8416
84	84	2.6020	-1.7964	-n.5547	2.5790

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The comprehension of deviant sentences, a not infrequent demand in natural situations, is dependent on several linguistic variables. Grammaticalness (G), meaningfulness (M), and familiarity (F) are three variables which are potentially such. In order to study the effect of violating these variables upon Ss' responses to deviant sentences, 85 deviant and 15 correct sentences were assigned to eight groups representing all combinations of two values ("correct" or "deviant") on these three variables. The 100 sentences were given to four equal groups of Ss (total N = 112), who rated each sentence from 0 to 10 on the basis of either grammaticalness (G*), meaningfulness (M*), familiarity (F*), or ordinariness (O*). The data of the first three groups were then combined into an 84 by 100 matrix. A principal components analysis was performed on the cross-product matrix with a varimax rotation. Four interpretable factors emerged, accounting for 89% of the variability. Factor I was a general comprehensibility factor in the factor loadings, related to changes in all three variables. However, the familiarity Ss scored highest on Factor I. Factors II and III represented G-G* and M-M*, respectively, in both factor loadings and factor scores. Factor IV corresponded to the F variable in the factor loadings, but was uninterpretable for the factor scores.

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